

Functional Groups

Alcohols Characteristics:

- 1) general formula: $R-OH$
- 2) contain an $-OH$ group
- 3) do not act as bases
- 4) light weight alcohols are soluble in water (ethyl alcohol)

Examples:

Aldehydes Characteristics:

- 1) general formula: $R-CHO$
- 2) contain a primary carbonyl group
- 3) soluble in water

Examples:

Ketones Characteristics:

1) general formula:

2) secondary carbonyl group

3) soluble in water

Examples:

Carboxylic Acids Characteristics:

1) general formula: $R - \text{COOH}$

2) primary carboxyl group

Examples:

Esters Characteristics:

1) general formula:

2) give foods their flavor

Examples:

Ethers Characteristics:

1) general formula: $R - O - R$

Examples:

Amines Characteristics:

1) general formula: $R - NH_x$

2) act as a Lewis Base

3) N will have 3 bonds

Examples:

Amides Characteristics:

1) general formula:

2) group is attached to a primary carbon

Examples: